

WHAT IS CLAIMED IS:

1. A fluid filled vibration damping device comprising:

a first mounting member;

5 a second mounting member having a generally hollow cylindrical shape, and situated with a first opening thereof opposed to the first mounting member with an axial spacing therebetween, the second mounting member having a shoulder portion so that a large diameter cylindrical caulking portion is integrally formed at a second opening thereof;

10 a rubber elastic body disposed between the first mounting member and the first opening of the second mounting member, and elastically connecting the first and second mounting members to thereby fluid-tightly close the first opening of the second mounting member;

15 a lid member having an annular fixing member, and fixed by caulking fixation to the second mounting member with the annular fixing member press fit into the cylindrical caulking portion to be superimposed on the shoulder portion, to thereby fluid-tightly close the second opening of the second mounting member;

20 a fluid chamber formed between the rubber elastic body and the lid member, and filled with a non-comporessible fluid;

a partition member installed within the fluid chamber, and having an outside diameter smaller than an inside diameter of the cylindrical caulking portion of the second mounting member;

25 a plurality of engaging projections formed onto the partition member by rising up respective portions of an outer peripheral portion of the partition member in uplift cutout form toward one side of the partition member,

30 the engaging projections being fit axially inwardly into the second mounting member with the partition member superimposed on the shoulder portion of the second mounting member so that the engaging projections

are held in direct or indirect engagement with an inner circumferential surface of the second mounting member, and that the partition member is positioned in an axis-perpendicular direction with respect to the second mounting member; and

5 a sealing portion disposed to check a flow of the non-compressible fluid through cutout openings left after the engaging projections have been formed at a radially inside of the engaging projections.

2. A fluid filled vibration damping device according to claim 1,
10 wherein a periphery of upraised portion of each of the plurality of engaging projections is press punched over a predetermined width to thereby form a punch-out hole surrounding the each of the plurality of engaging projections.

15 3. A fluid filled vibration damping device according to claim 1, wherein the sealing portion includes a sealing rubber that is compressed between superimposed faces of the partition member and the fixing member.

20 4. A fluid filled vibration damping device according to claim 1, wherein the lid member includes a readily deformable, flexible rubber layer bonded by vulcanization at an outer peripheral portion thereof to the fixing member, and a pressure-receiving chamber partially defined by the rubber elastic body and adapted to give rise to pressure variation during
25 vibration input is formed on one of axially opposite side of the partition member, while an equilibrium chamber partially defined by the flexible rubber layer and readily allowing change in volume is formed on an other of axially opposite side of the partition member, the pressure-receiving chamber and the equilibrium chamber being held in fluid communication
30 with each other through an fluid passage formed by at least partially

utilizing the partition member.

5. A fluid filled vibration damping device according to claim 1,
wherein the lid member includes an oscillating plate disposed spaced
5 inwardly from the fixing member, and a supporting rubber plate elastically
connecting the oscillating plate to the fixing member, the fluid filled
vibration damping device further comprising: an actuator for actuating
oscillation of the oscillating plate assembled supported by the second
mounting member, thereby forming on one of axially opposite sides of the
10 partition member a pressure-receiving chamber partially defined by the
rubber elastic body and adapted to give rise to pressure variation during
vibration input, while forming on an other side of the axially opposite sides
of the partition member an oscillating chamber that is pressure-controlled
by means of oscillation of the oscillation plate, the pressure-receiving
15 chamber and the equilibrium chamber being held in fluid communication
with each other through a fluid passage formed by at least partially
utilizing the partition member.

6. A fluid filled vibration damping device according to claim 1,
20 wherein an elastic body outer sleeve of generally cylindrical shape is
bonded to the outer peripheral portion of the rubber elastic body through
vulcanization of the rubber elastic body, the elastic body outer sleeve is
fitting within the second mounting member with positioned in the
axis-perpendicular direction of the second mounting member, a flange is
25 disposed at a peripheral portion of an opening at a first axial end of the
elastic body outer sleeve, and the flange is superimposed on the shoulder
portion of the second mounting member and fixed caulkwise at the
cylindrical caulking portion so that an outside peripheral portion of the
rubber elastic body is fixed to the second mounting member, while the
30 partition member and the fixing member are serially superimposed against

the elastic body outer sleeve with the engaging projection of the partition member positioned indirectly against the inner circumferential surface of the second mounting member via the elastic body outer sleeve, and with the outside peripheral portion of the partition member supported held
5 between the fixing member and the flange of the elastic body outer sleeve which are respectively caulked directly at the cylindrical caulking portion of the second mounting member.

7. A fluid filled vibration damping device according to claim 6,
10 wherein the outside diameter of the partition member is smaller than an inside diameter of the shoulder portion of the second mounting member.

8. A fluid filled vibration damping device according to claim 2,
wherein the sealing portion is formed by extending the fixing member
15 inwardly in a radial direction thereof enough to close cutout openings and punch-out holes in the partition member.